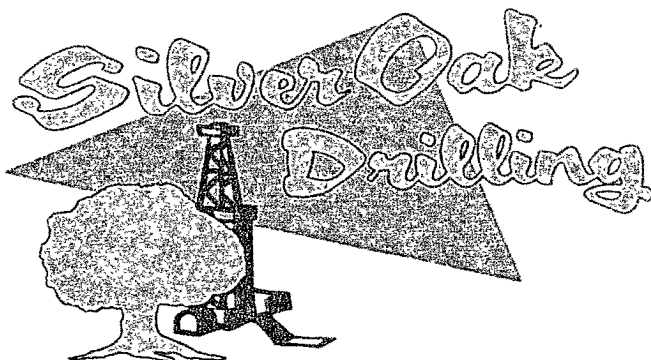


30.015. 36526



PO Box 1370
Artesia, NM 88211-1370
(505) 748-1288

April 30, 2009

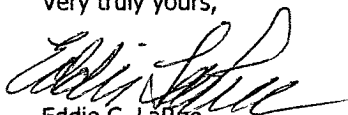
Mack Energy Corporation
PO Box 960
Artesia, NM 88211-0960

RE: Cowboys Federal #1
355' FNL & 330' FEL
Sec. 17, T16S, R29E
Eddy County, New Mexico

Dear Sir,

The attached is the Deviation Survey for the above captioned well.

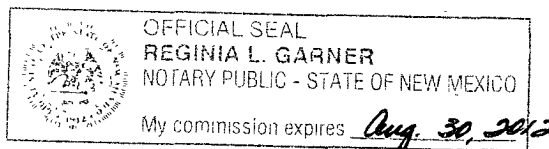
Very truly yours,


Eddie C. LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 30th day of April, 2009.


Notary Public



Date	Depth	Dev	Dir	TVD
03/20/2009	176.00	0.75	0.00	0.00
03/23/2009	526.00	0.80	55.10	0.00
03/23/2009	955.00	0.70	100.10	0.00
03/23/2009	1266.00	0.60	108.10	0.00
03/23/2009	1572.00	0.90	82.10	0.00
03/23/2009	1882.00	0.30	149.10	0.00
03/24/2009	2200.00	0.50	28.10	0.00
03/24/2009	2511.00	0.20	240.10	0.00
03/24/2009	2823.00	0.60	300.10	0.00
03/24/2009	3129.00	0.70	270.10	0.00
03/25/2009	3449.00	0.20	272.10	0.00
03/26/2009	3764.00	0.60	309.10	0.00
03/26/2009	4100.00	0.50	275.10	0.00
03/27/2009	4293.00	0.30	292.20	0.00
03/28/2009	4673.00	1.00	330.10	0.00
03/28/2009	4727.00	1.00	319.00	0.00
03/28/2009	4914.00	0.40	328.00	0.00
03/29/2009	4956.00	0.97	335.48	4955.75
03/29/2009	5049.00	0.88	85.08	5048.75
03/29/2009	5143.00	1.32	104.33	5142.73
03/30/2009	5236.00	1.67	131.49	5235.70
03/30/2009	5329.00	1.76	134.21	5328.66
03/30/2009	5423.00	1.58	127.27	5422.62
03/30/2009	5516.00	1.49	133.16	5515.59
03/30/2009	5610.00	1.32	129.90	5609.56
03/30/2009	5703.00	1.41	126.92	0.00
03/30/2009	5797.00	1.41	123.40	5796.50
03/31/2009	5890.00	1.41	124.45	5889.47
03/31/2009	5983.00	1.58	119.88	5982.44
03/31/2009	6077.00	1.49	118.92	6076.41
03/31/2009	6170.00	0.35	126.13	6169.39
03/31/2009	6263.00	0.79	248.65	6262.39
04/01/2009	6357.00	2.37	265.69	6356.35
04/01/2009	6450.00	2.46	266.66	6449.27
04/01/2009	6543.00	2.11	270.71	6542.20
04/01/2009	6637.00	2.11	268.07	6636.13
04/01/2009	6730.00	1.93	270.97	6729.08
04/01/2009	6824.00	1.85	271.85	6823.02
04/02/2009	6917.00	1.76	272.20	6915.98
04/02/2009	7010.00	1.76	274.92	7008.93
04/02/2009	7104.00	1.76	272.90	7102.89
04/02/2009	7290.00	1.58	274.31	7288.81
04/08/2009	6514.00	5.54	258.07	6513.21
04/08/2009	6545.00	9.76	256.72	6543.82
04/08/2009	6576.00	13.37	259.57	6574.19
04/08/2009	6607.00	17.41	260.01	6604.07
04/08/2009	6638.00	20.22	266.26	6632.42
04/08/2009	6669.00	23.39	268.28	6662.19
04/08/2009	6700.00	25.83	268.31	6690.37
04/08/2009	6732.00	27.70	269.03	6718.91
04/08/2009	6763.00	27.61	268.73	6746.40
04/08/2009	6794.00	27.35	269.26	6773.90
04/08/2009	6825.00	29.19	273.48	6801.21
04/09/2009	6856.00	32.62	273.55	6827.80
04/09/2009	6887.00	35.96	273.85	6853.41
04/09/2009	6918.00	39.31	273.41	6877.96
04/09/2009	6950.00	42.91	272.40	6902.06
04/09/2009	6981.00	46.96	270.87	6924.00
04/09/2009	7012.00	51.00	269.18	6944.37
04/09/2009	7043.00	54.87	267.95	6963.03

Date	Depth	Dev	Dir	TVD
04/09/2009	7074.00	59.18	267.45	6979.90
04/10/2009	7105.00	62.96	267.05	6994.89
04/10/2009	7136.00	67.01	267.59	7008.00
04/10/2009	7167.00	70.70	268.39	7019.18
04/10/2009	7199.00	74.92	268.63	7028.63
04/10/2009	7230.00	78.26	267.99	7035.82
04/10/2009	7261.00	81.34	268.43	7041.31
04/10/2009	7292.00	83.62	269.00	7045.37
04/10/2009	7323.00	85.91	270.67	7048.19
04/11/2009	7366.00	88.10	270.74	7050.44
04/11/2009	7397.00	90.45	270.72	7050.83
04/12/2009	7428.00	90.84	270.94	7050.38
04/12/2009	7459.00	89.61	271.32	7050.36
04/12/2009	7490.00	89.16	271.37	7050.70
04/12/2009	7522.00	89.61	271.47	7051.04
04/12/2009	7553.00	89.61	271.60	7051.25
04/12/2009	7522.00	89.61	271.47	7051.04
04/12/2009	7584.00	89.83	276.64	7051.40
04/12/2009	7615.00	90.00	271.67	7051.45
04/12/2009	7646.00	90.00	271.69	7051.45
04/13/2009	7677.00	90.11	271.99	7051.10
04/13/2009	7708.00	90.95	271.86	7051.13
04/13/2009	7740.00	91.23	271.91	7050.52
04/13/2009	7771.00	91.17	271.80	7049.87
04/13/2009	7802.00	91.23	270.58	7049.22
04/13/2009	7833.00	91.06	269.93	7048.60
04/13/2009	7864.00	90.90	269.76	7048.07
04/13/2009	7895.00	90.90	269.74	7047.59
04/13/2009	7927.00	91.23	270.11	7046.99
04/13/2009	7958.00	90.45	270.13	7046.54
04/13/2009	7989.00	89.66	270.54	7046.51
04/14/2009	8020.00	89.89	270.81	7046.63
04/14/2009	8051.00	89.83	270.65	7046.71
04/14/2009	8082.00	89.94	270.51	7046.83
04/14/2009	8114.00	90.14	270.50	7046.77
04/14/2009	8145.00	90.22	271.25	7046.69
04/14/2009	8176.00	89.83	270.82	7046.68
04/14/2009	8207.00	89.66	270.59	7046.82
04/14/2009	8238.00	89.89	270.92	7046.94
04/14/2009	8269.00	89.89	271.29	7046.92
04/14/2009	8300.00	90.28	271.52	7046.80
04/14/2009	8331.00	90.39	271.91	7046.62
04/15/2009	8362.00	90.34	271.99	7046.62
04/15/2009	8393.00	89.72	269.30	7046.41
04/15/2009	8456.00	89.55	268.98	7046.95
04/15/2009	8487.00	90.22	268.70	7047.01
04/15/2009	8518.00	90.56	268.78	7046.80
04/15/2009	8549.00	90.78	268.95	7046.44
04/15/2009	8580.00	90.95	269.53	7045.97
04/15/2009	8611.00	90.84	269.64	7045.48
04/15/2009	8642.00	91.01	269.15	7044.98
04/16/2009	8674.00	90.06	269.17	7044.68
04/16/2009	8705.00	89.72	268.94	7044.75
04/16/2009	8736.00	89.78	269.42	7045.09
04/16/2009	8767.00	89.89	269.34	7044.97
04/16/2009	8798.00	89.94	269.48	7045.01
04/16/2009	8861.00	90.34	269.69	7044.91
04/16/2009	8830.00	90.06	269.57	7045.01
04/16/2009	8892.00	89.16	269.32	7045.04
04/16/2009	8923.00	88.89	269.06	7045.57

Date	Depth	Dev	Dir	TVD
04/16/2009	8954.00	88.94	269.10	7046.16
04/16/2009	8985.00	89.05	269.04	7046.00
04/16/2009	9016.00	89.16	268.87	7047.18
04/16/2009	9048.00	89.22	269.49	7047.64
04/17/2009	9079.00	89.44	269.84	7048.00
04/17/2009	9110.00	89.83	269.61	7048.20
04/17/2009	9141.00	89.83	269.73	7048.29
04/17/2009	9172.00	89.94	270.27	7048.35
04/17/2009	9203.00	90.00	270.27	7048.35
04/17/2009	9234.00	89.94	270.41	7048.38
04/17/2009	9266.00	90.06	270.30	7048.38
04/17/2009	9296.00	90.06	270.25	7048.35
04/17/2009	9327.00	89.94	270.28	7048.38
04/17/2009	9359.00	91.34	270.22	7047.99
04/17/2009	9386.00	91.79	270.40	7047.26
04/17/2009	9421.00	91.85	270.27	7046.15
04/17/2009	9452.00	91.96	270.64	7045.11
04/18/2009	9483.00	92.24	270.62	7043.98
04/18/2009	9514.00	91.01	270.32	7043.10
04/18/2009	9546.00	90.50	269.76	7042.68
04/18/2009	9577.00	90.45	269.88	7042.42
04/18/2009	9608.00	90.45	270.29	7042.18
04/18/2009	9639.00	91.23	270.25	7041.72
04/19/2009	9670.00	91.51	271.57	7041.12
04/19/2009	9701.00	92.40	271.26	7040.06
04/19/2009	9733.00	92.85	271.27	7038.59
04/19/2009	9764.00	93.08	271.61	7036.99
04/19/2009	9795.00	93.19	270.76	7035.30
04/19/2009	9826.00	92.57	270.13	7033.74
04/19/2009	9857.00	92.29	269.62	7032.42
04/19/2009	9888.00	92.18	269.55	7031.21
04/19/2009	9919.00	92.13	269.47	7030.05
04/19/2009	9950.00	92.02	269.75	7028.93
04/19/2009	9981.00	92.01	269.65	7027.84
04/19/2009	10012.00	90.62	269.16	7027.12
04/19/2009	10044.00	90.00	269.07	7026.95
04/19/2009	10075.00	90.28	268.62	7026.88
04/19/2009	10106.00	90.28	268.76	7026.72
04/19/2009	10137.00	89.44	268.40	7026.80
04/19/2009	10168.00	89.05	268.91	7027.21
04/19/2009	10199.00	89.16	268.37	7027.69
04/20/2009	10230.00	88.88	268.57	7028.22
04/20/2009	10262.00	88.71	268.64	7029.90
04/20/2009	10293.00	88.67	268.53	7029.61
04/20/2009	10325.00	88.40	268.81	7030.42
04/20/2009	10356.00	88.38	267.80	7031.28
04/20/2009	10387.00	89.55	268.27	7031.84
04/20/2009	10418.00	89.78	268.18	7032.02
04/20/2009	10449.00	89.55	268.19	7032.21
04/20/2009	10480.00	90.73	268.33	7032.13
04/20/2009	10512.00	90.01	268.38	7031.64
04/20/2009	10543.00	90.95	268.70	7031.11
04/20/2009	10574.00	90.90	268.56	7030.61
04/20/2009	10605.00	90.89	268.24	7030.13
04/20/2009	10636.00	90.73	267.39	7029.69
04/20/2009	10667.00	90.69	267.11	7029.31
04/20/2009	10698.00	89.89	268.01	7029.16
04/20/2009	10730.00	89.78	269.88	7029.26
04/20/2009	10761.00	89.83	269.71	7029.36
04/20/2009	10792.00	89.94	269.47	7029.49